

M 6.1, 130 km S of Punta de Burica, Panama

Origin Time: 2021-07-17 20:56:11 UTC (Sat 14:56:11 local)

Location: 6.8776° N 82.6424° W Depth: 9.1 km

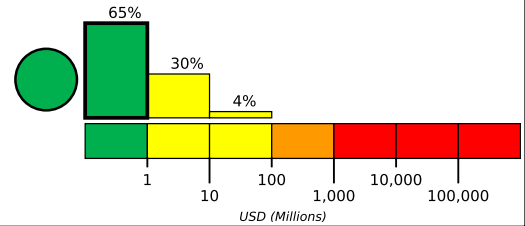
Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

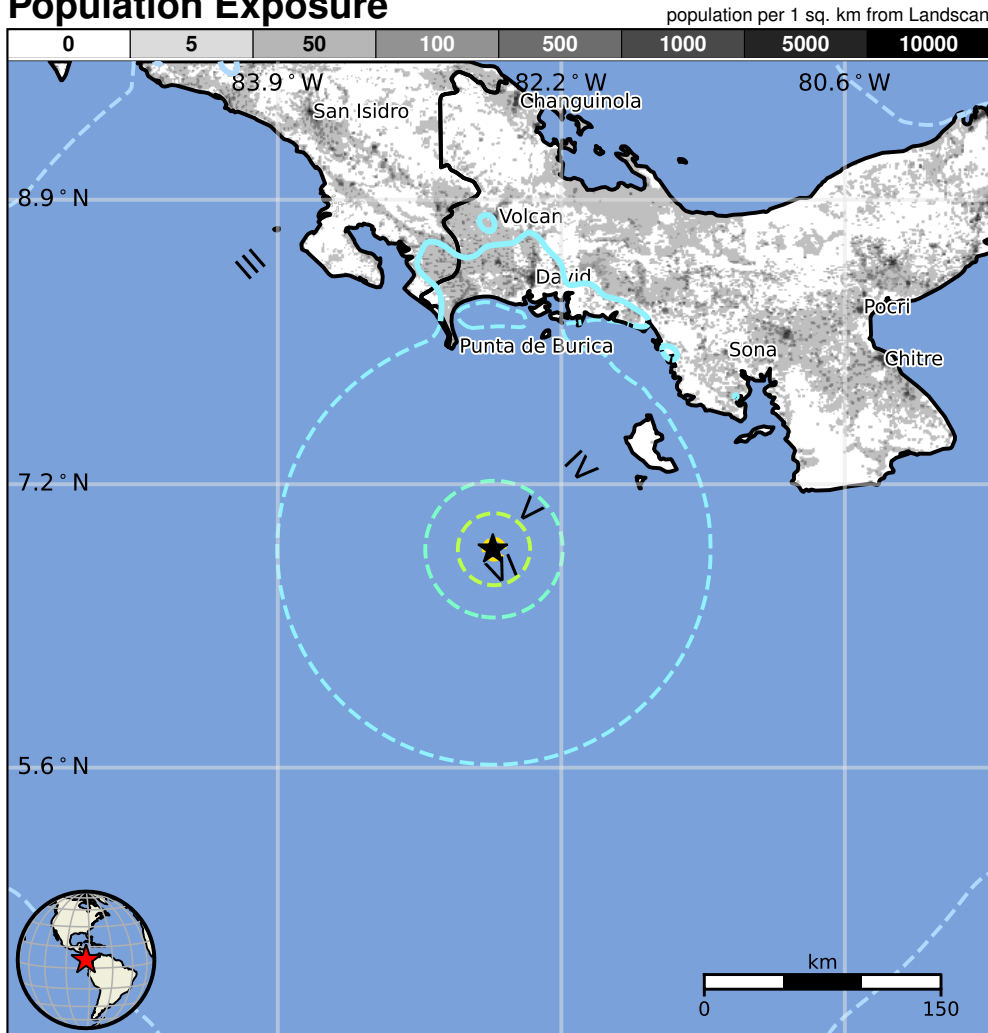


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 2,008k* | 447k | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------------------|----------|---------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and adobe block construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1993-07-10 | 344 | 5.8 | VII(45k) | 1 |
| 1990-12-22 | 386 | 5.9 | VIII(188k) | 1 |
| 1991-04-22 | 314 | 7.6 | VII(213k) | 75 |

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|------------|----------------------|------------|
| IV | Guarumal | 2k |
| IV | Pedregal | 16k |
| IV | Querevalo | <1k |
| IV | La Esperanza | 2k |
| IV | Progreso | 2k |
| IV | Palo Grande | <1k |
| IV | David | 83k |
| III | Santiago de Veraguas | 45k |
| III | Bocas del Toro | 13k |
| III | Chitre | 44k |
| III | Colon | 77k |

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000emzy#pager>

Event ID: us7000emzy